SD421.32
.C71
F81
2002

Effects of FOREST MANAGEMENT on the Hayman Fire in Colorado: Lessons Learned

PHOTOS and MAPS

September 2002

USDA
United States
Department of
Agriculture

Effects of FOREST MANAGEMENT on the Hayman Fire in Colorado: Lessons Learned

PHOTOS and MAPS

Prepared for:
USDA Forest Service
State and Private Forestry
201 14th Street SW
Washington, DC 20024

USDA
United States Department of Agriculture

Property of
National FS Library
USDA Forest Service
240 W Prospect Rd
Fort Collins CO 80526

Prepared by:

FOSTER WHEELER ENVIRONMENTAL CORPORATION
143 Union Boulevard, Suite 1010
Lakewood, CO 80228

September 2002

Cover and back photographs were taken by Joseph Cisneros and Karen Wattenmaker

Hayman Fire Lessons Learned

List of Photos

	Title	Page
1	Schoonover Fire and Hayman Fire	1
2	Mixed-Severity Burn on Manitou Experimental Forest Treatment Areas	2
3	Manitou Experimental Forest Mechanical Treatment Area	3
4	Manitou Experimental Forest, Highway 67	4
5	Entry Road to Cheesman Lake	5
6	Road 211 Fuel Break near South End of Cheesman Lake	6
7	Road 211 Fuel Break near South End of Cheesman Lake	6
8	1963 Wildfire Area in Hayman Fire Perimeter	7
9	Sheep Nose Timber Sale Completed in 2001	8
10	Sheep Nose Timber Sale Completed in 2001	8
11	Area in Cheesman Landscape Burned in 1851 and Recently Hydroaxed	9
12	Area in Cheesman Landscape Burned in 1851 and Recently Hydroaxed	9
13	991 AD Log Site Near Cheesman Lake	10

List of Figures

	Title	Page
1	Colorado Red Zone	11

List of Maps

	Title	Page
1	Previous Fires	12
2	Hayman Fire Progression	13
3	Hayman, Polhemus, and Schoonover Fires	14
4	Hayman Fire Burn Severity	15
5	Past Treatments in the Hayman Fire Region	16

6	Lost Creek Lynx Analysis Unit	17
7	Preble's Meadow Jumping Mouse Proposed Critical Habitat	18
8	Mexican Spotted Owl Critical Habitat and PACs	19
9	Pawnee Montane Skipper Habitat	20
10	Roadless and Wilderness Areas	21
11	Proposed Treatments in the Hayman Fire Region	22

Photo 1. Schoonover fire (background) and Hayman fire (foreground) south of Trout Creek looking northeast.

Photo 2. Mixed-severity burn on Manitou Experimental Forest treatment areas.

Photo 3. Manitou Experimental Forest mechanical harvest treatment area, showing varying damage from moderate fire intensity in previously treated area.

Photo 4. Manitou Experimental Forest, Highway 67. Untreated high burn severity in foreground, with low to moderate burn severity in mechanically treated areas.

Photo 5. Entry Road to Cheesman on the south end of the lake. Treatment was a shaded fuel break by the road. The Hayman fire came in as a flanking fire. The treatment changed the fire intensity from high to low.

Photos 6 and 7. Road 211 fuel break near the south end of Cheesman Lake. This treatment incorporated reduced tree density and openings. The Hayman fire burned as a head fire through this area. The treatments were totally burned, but with a reduced intensity.

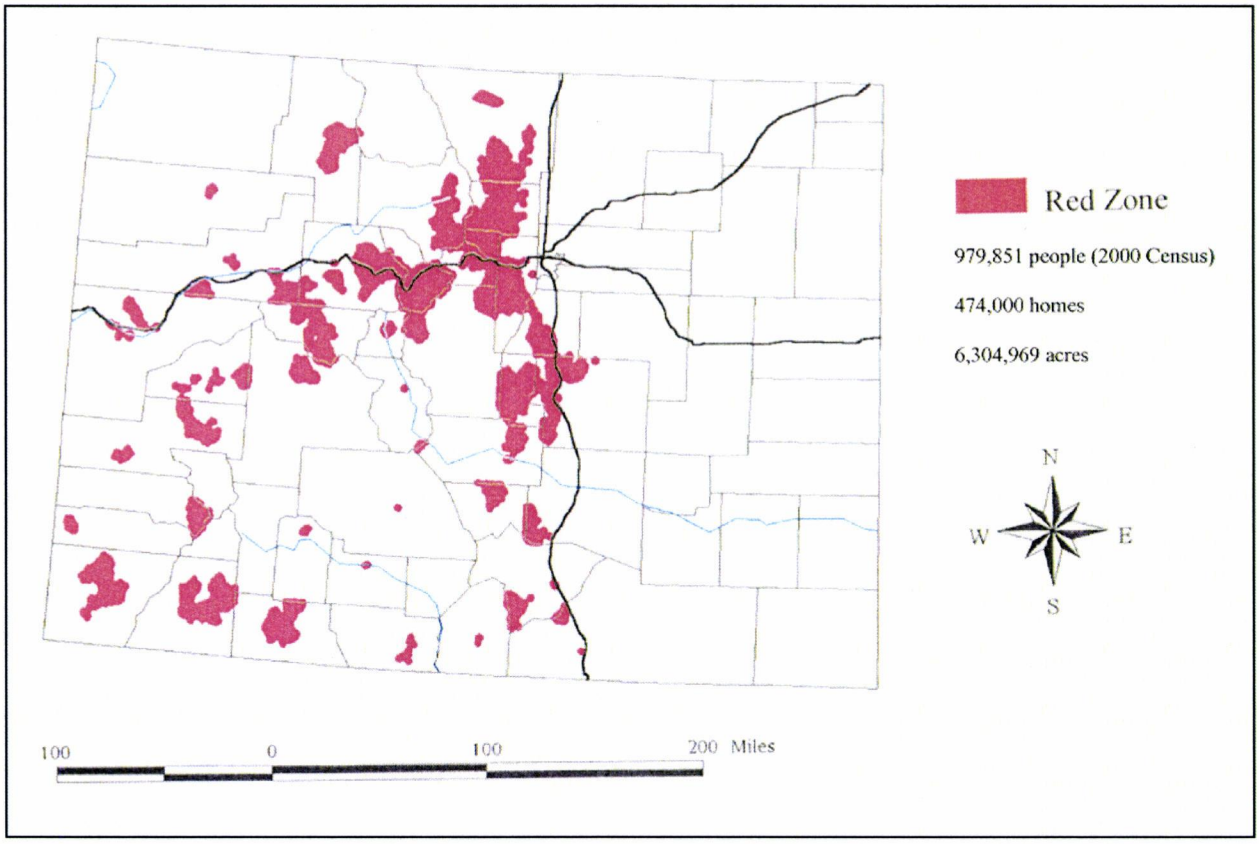
Photo 8. 1963 wildfire area in Hayman fire Perimeter. The Hayman fire had a lower fire severity and few green trees remained in the 1963 wildfire burned area.

Photos 9 and 10. Sheep Nose Timber Sale was completed in 2001. The Hayman fire burned as a head fire through this area. The reduced tree density can be seen in both photos. The burn severity was reduced but all but a few trees were killed. The burn severity increased almost immediately after leaving the sale area.

Photos 11 and 12. Area in Cheesman Landscape just east of Cheesman Lake that burned in 1851 and was recently hydroaxed. This area contained many openings and was close to a historic condition. The Hayman fire was a head fire through this area and the burn severity was high. The fire burned as a surface fire through openings and rapidly reached the crowns when it reached trees again.

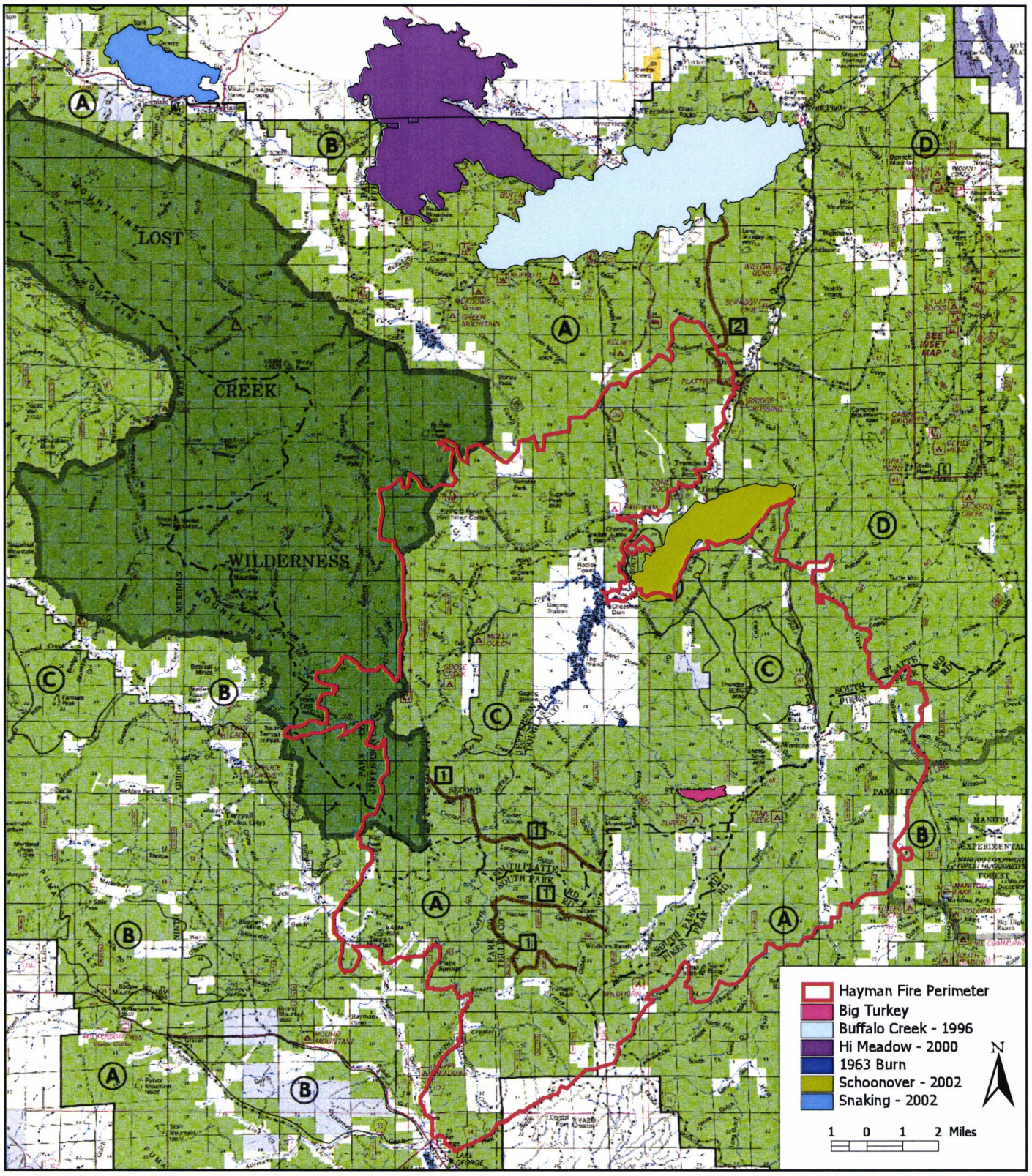
Photo 13. Seventeen fires were known to have occurred at an old-tree site where one log dated to 991 AD and the earliest fire scars dated to 1197 AD. No stand-replacing fire had occurred at this site for 500 years, but the Hayman fire killed everything and consumed a portion of the 991AD log.

Figure 1. Colorado Red Zone

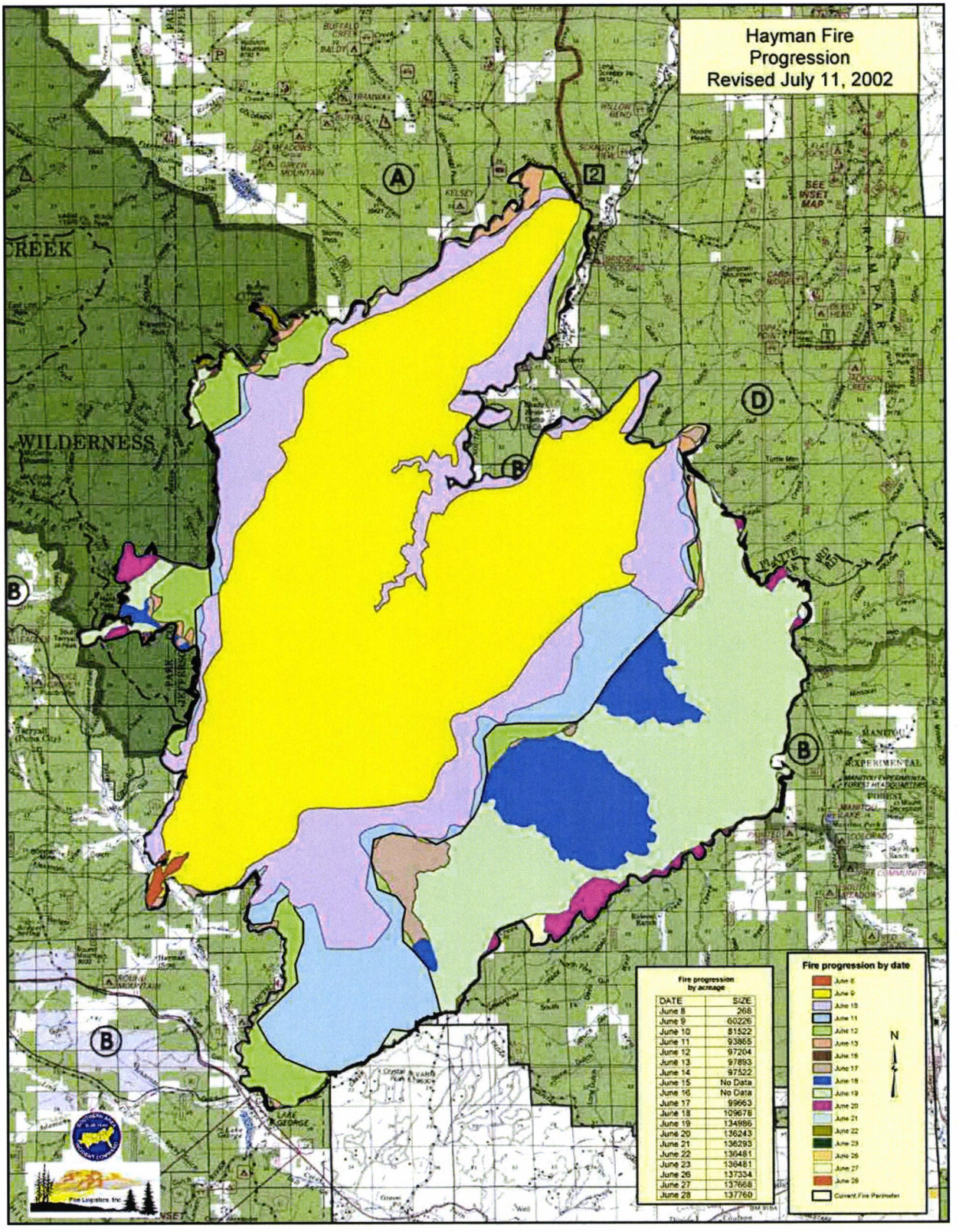


(Source; Colorado Statewide Fire Hazard Analysis)

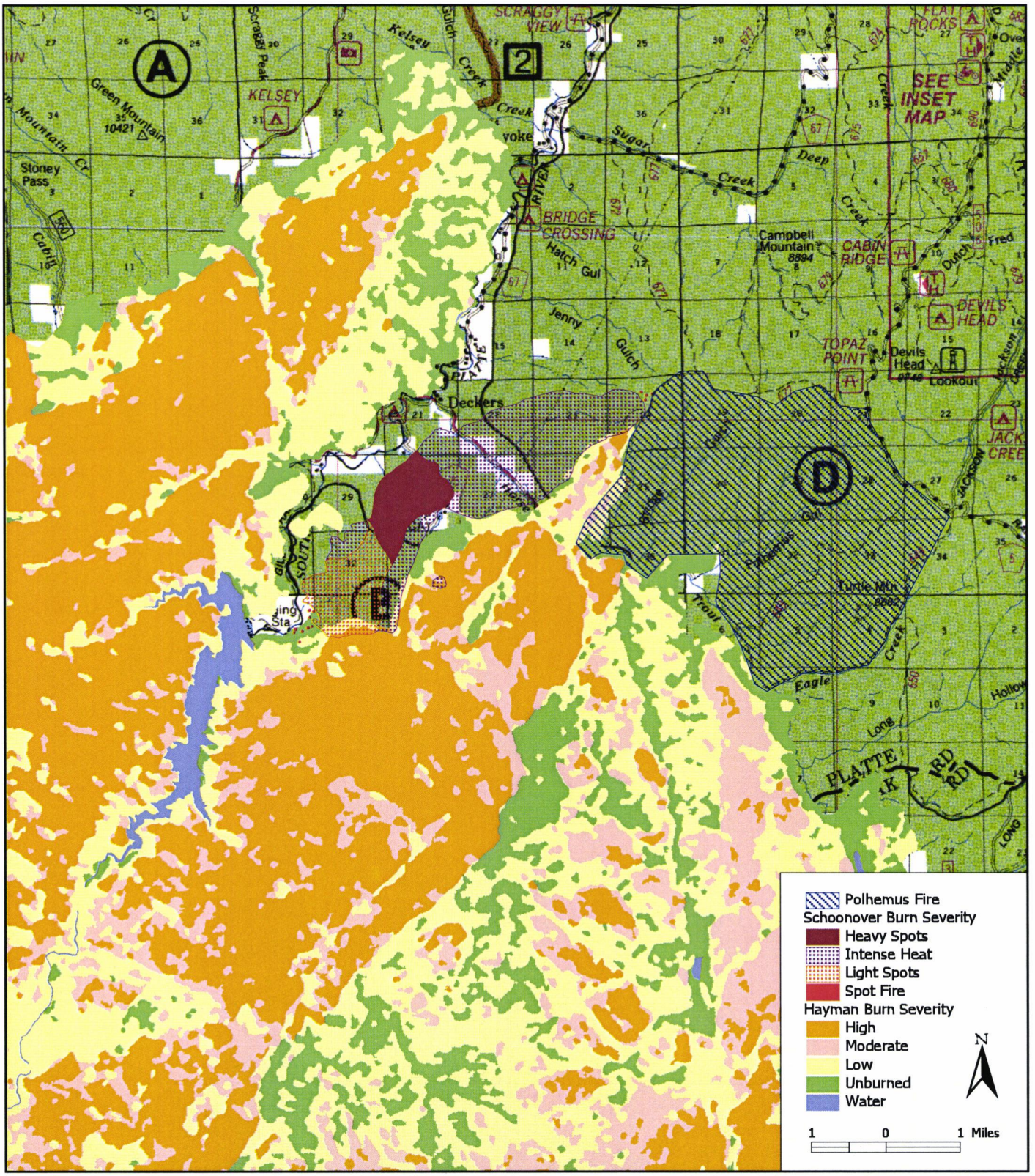
Map 1 - Previous Fires



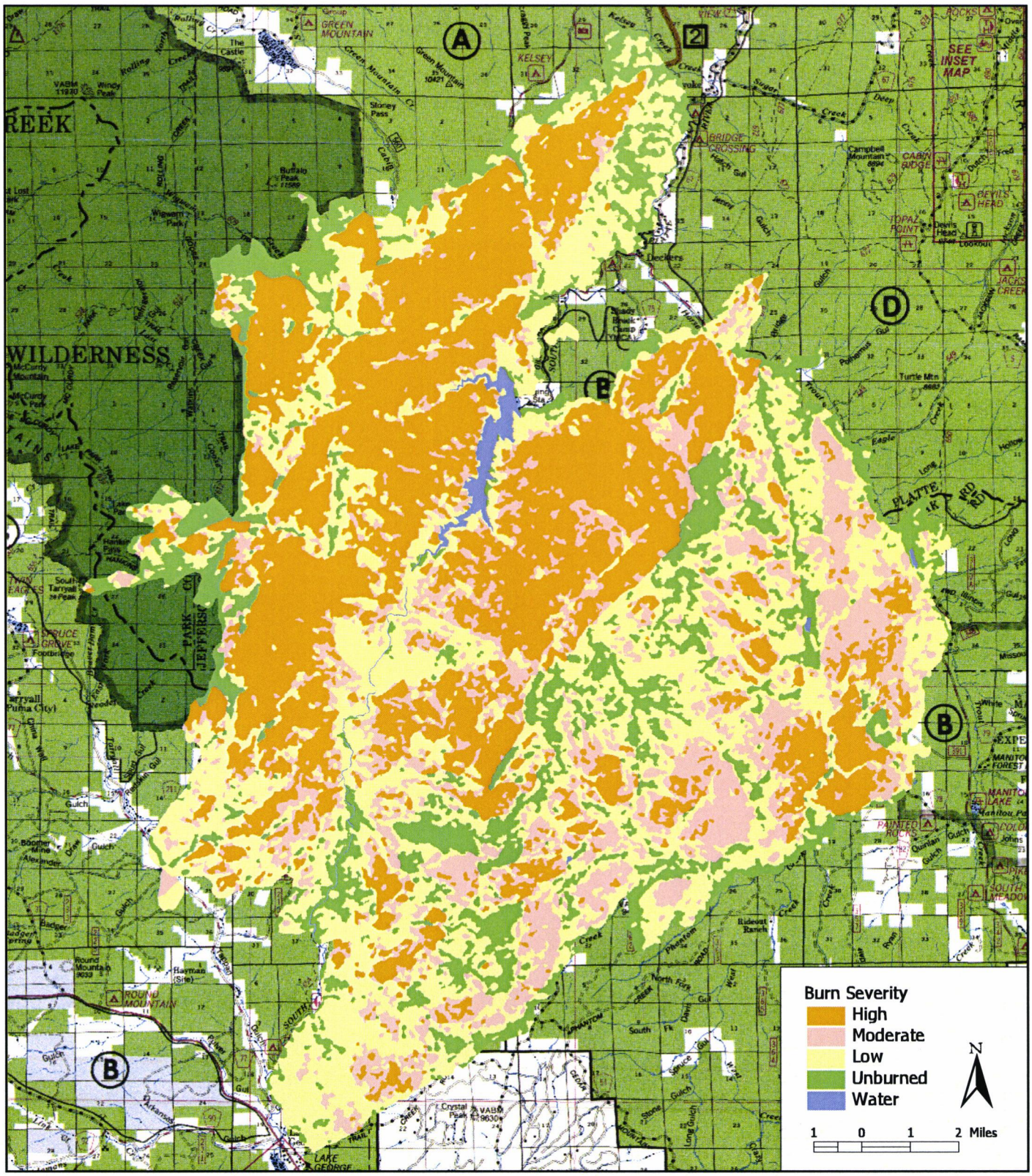
Map 2 - Hayman Fire Progression



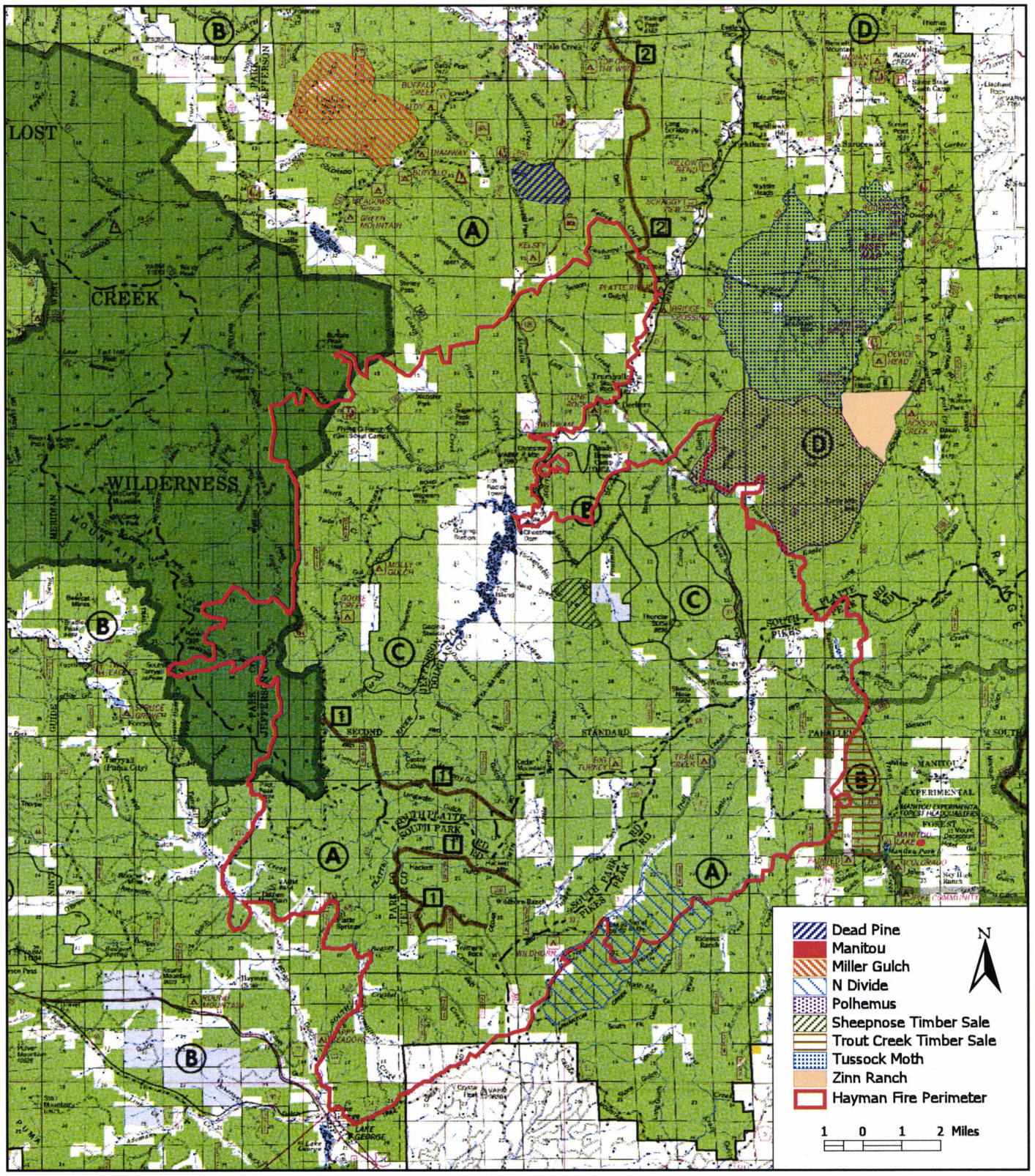
Map 3 - Hayman, Polhemus, and Schoonover Fires



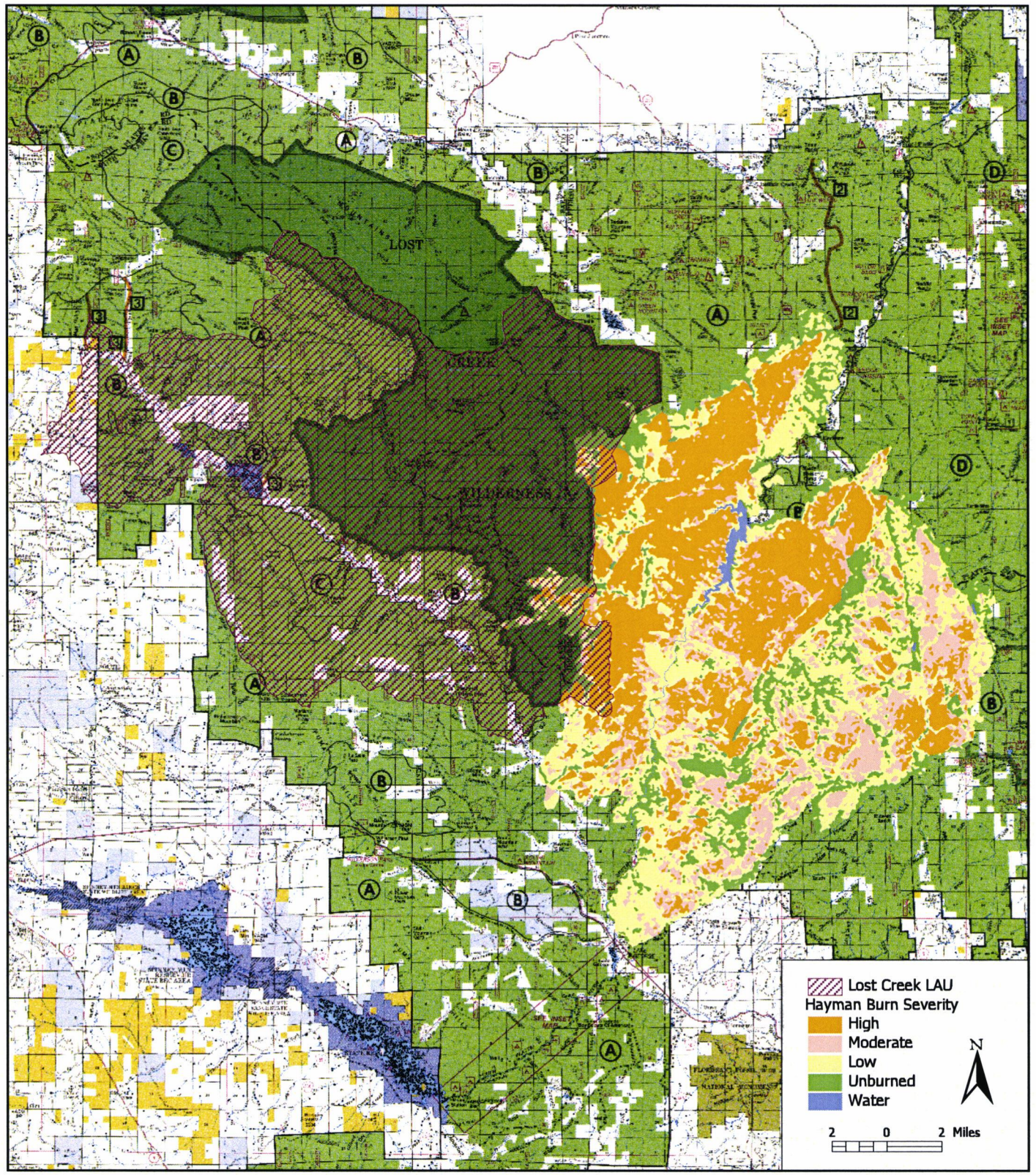
Map 4 - Hayman Fire Burn Severity



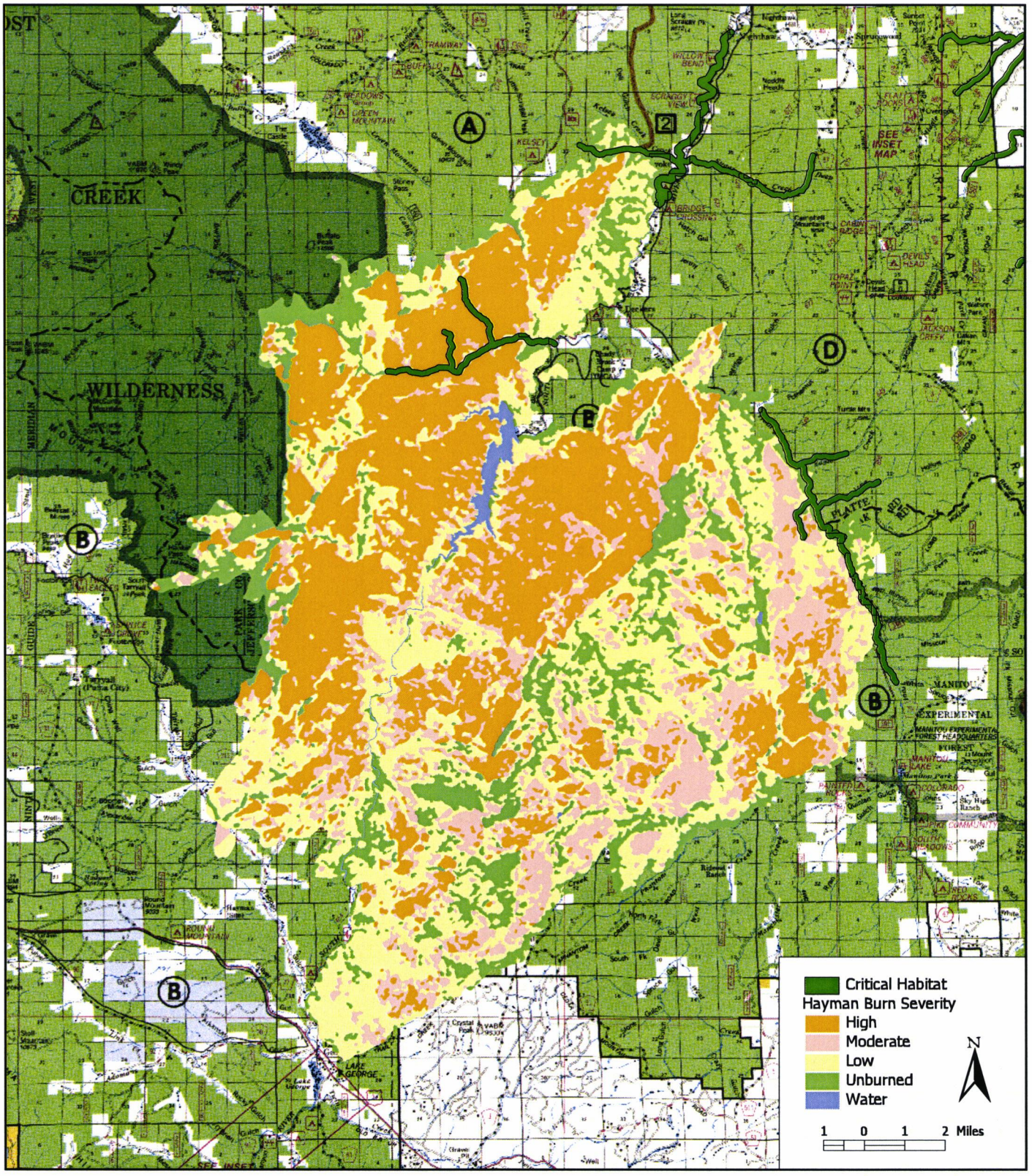
Map 5 - Past Treatments in the Hayman Fire Region



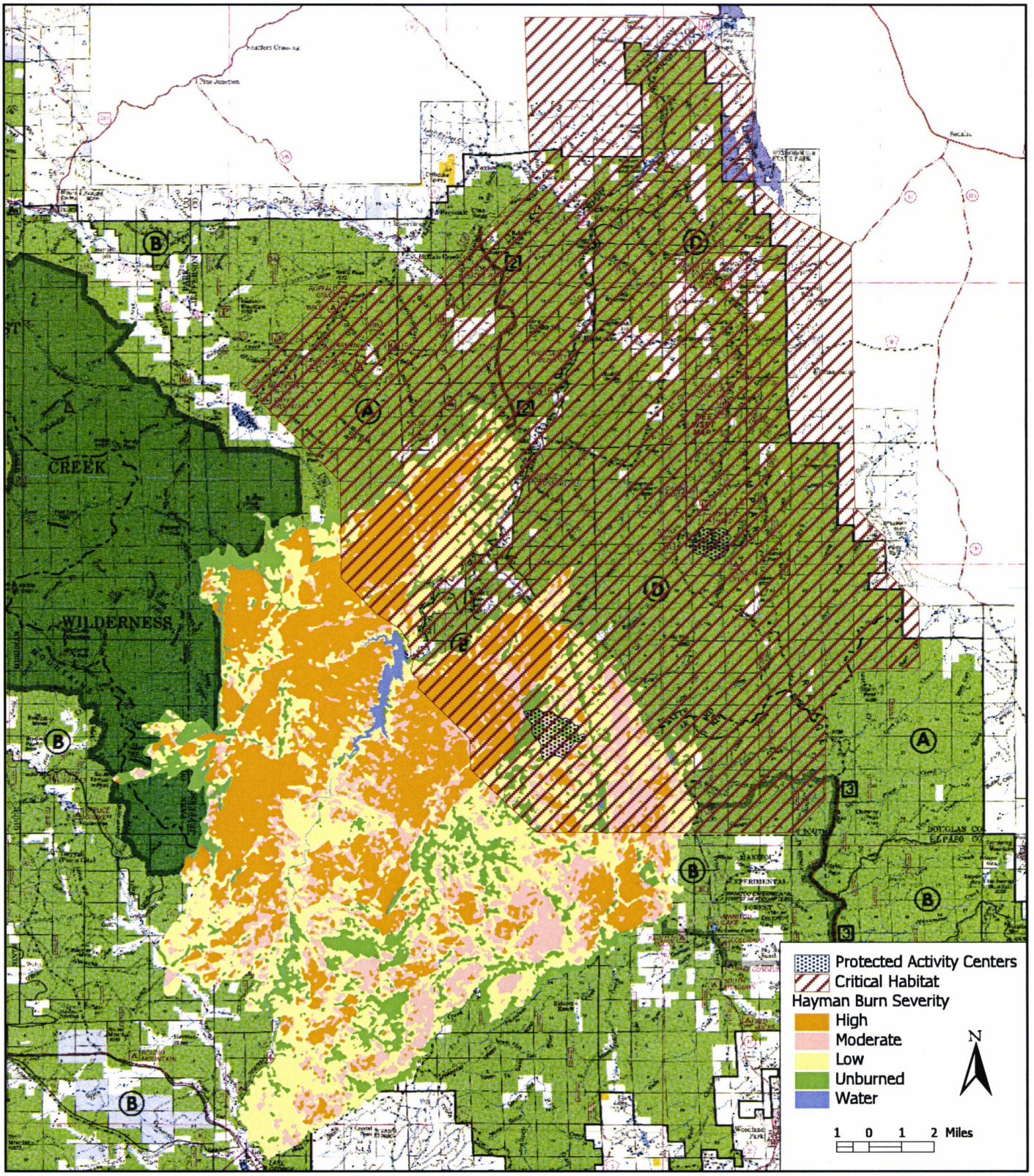
Map 6 - Lost Creek Lynx Analysis Unit



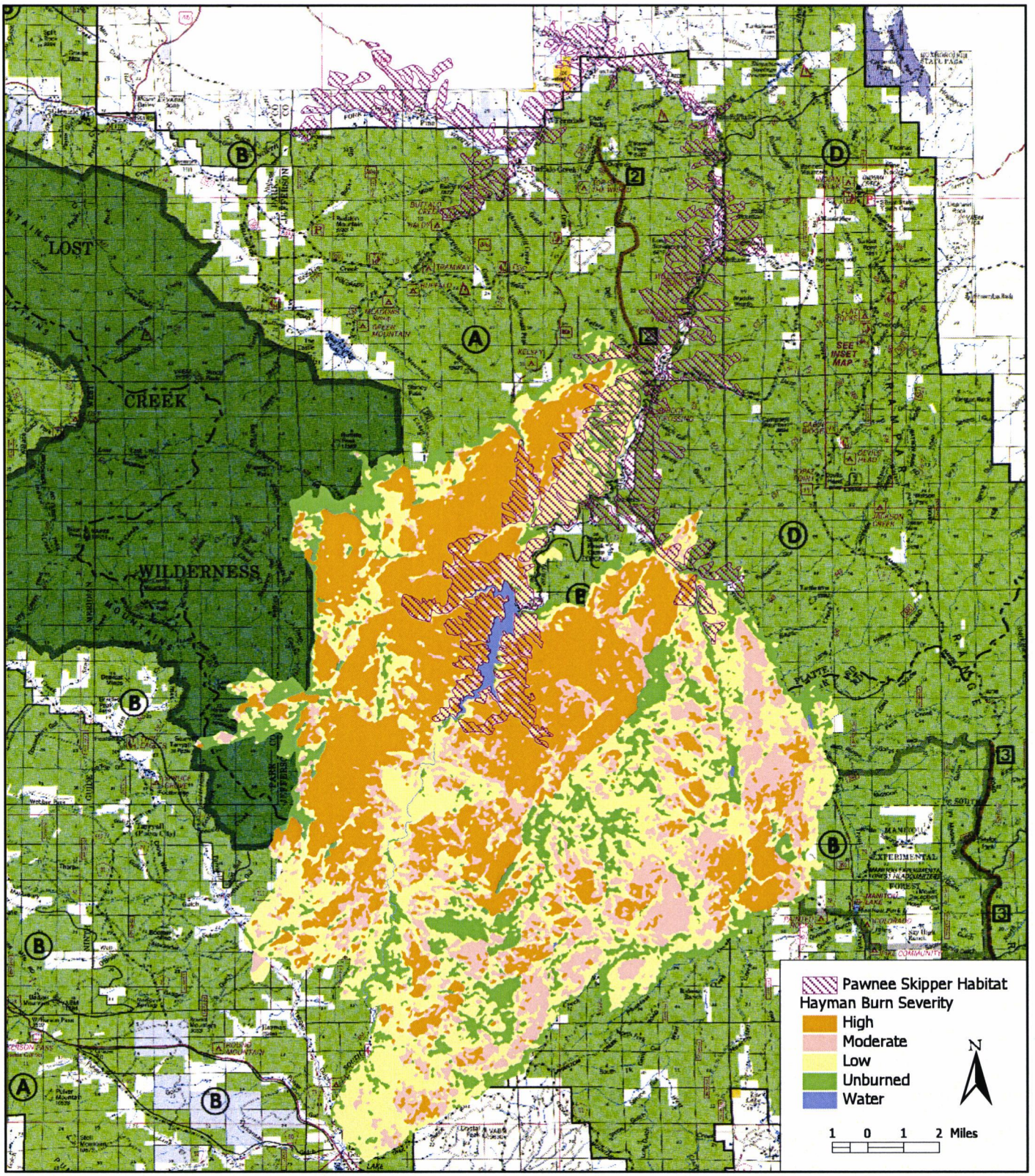
Map 7 - Preble's Jumping Mouse Proposed Critical Habitat



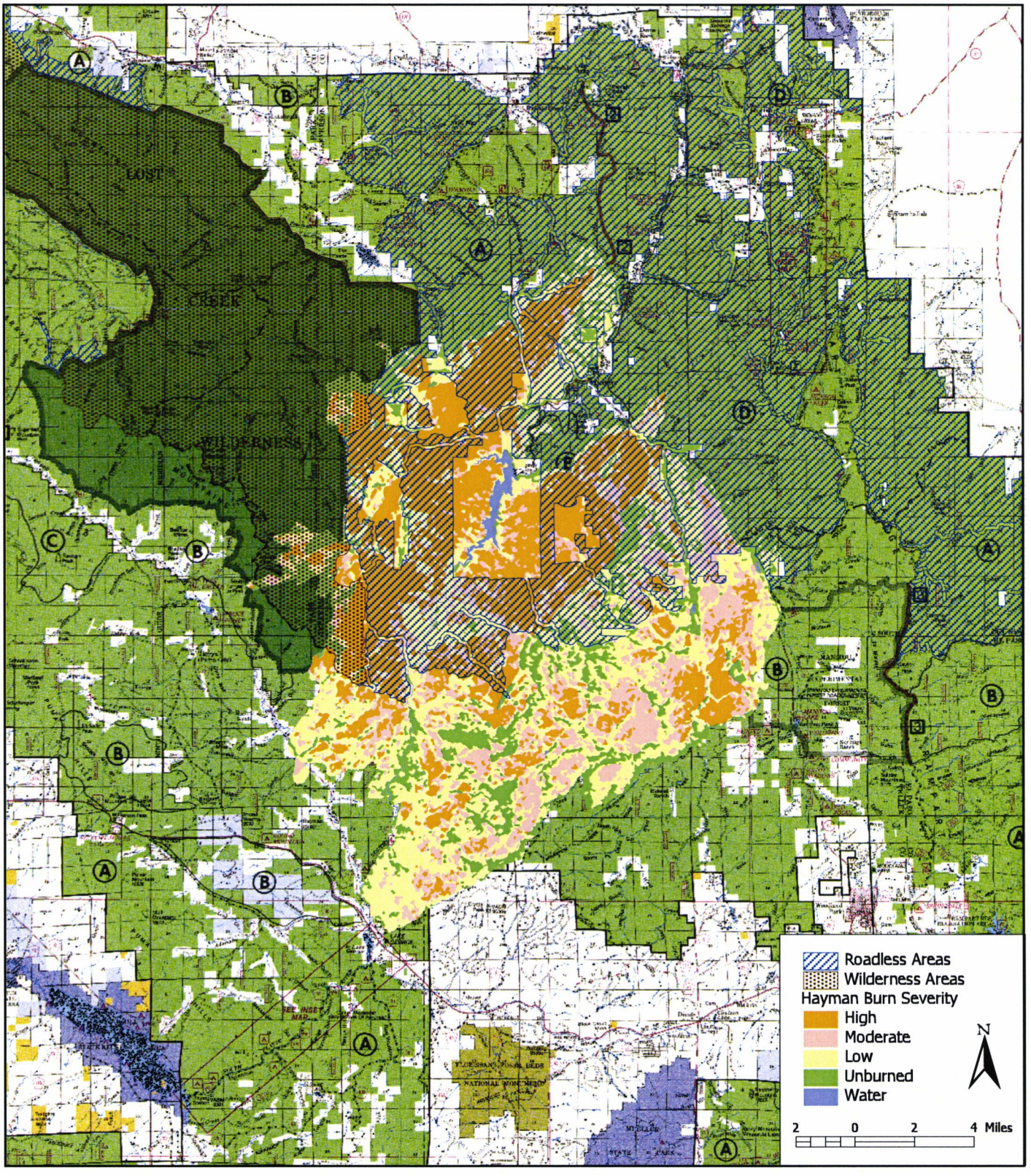
Map 8 - Mexican Spotted Owl Critical Habitat and PACs



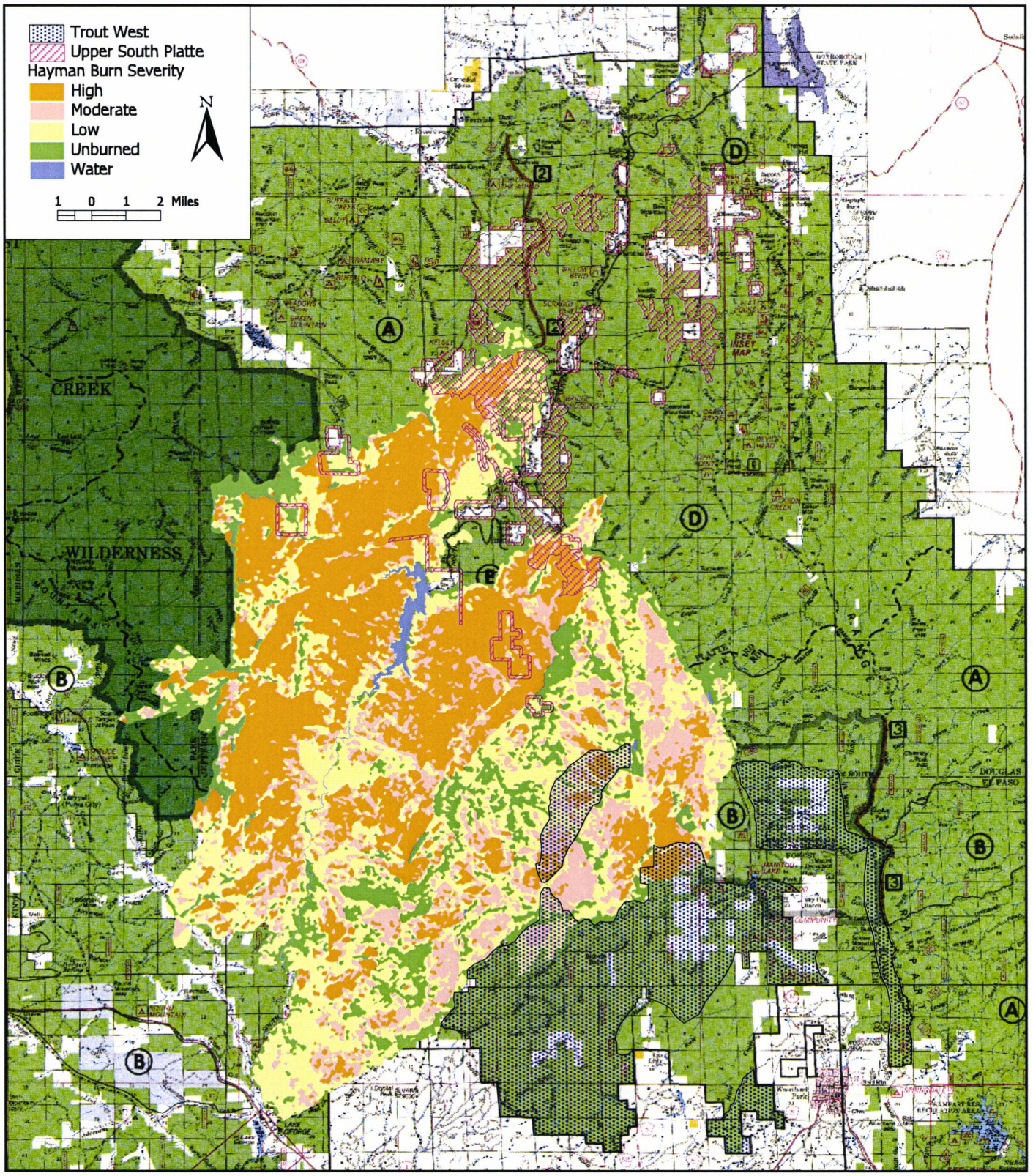
Map 9 - Pawnee Montane Skipper Habitat



Map 10 - Roadless and Wilderness Areas



Map 11 - Proposed Treatments in the Hayman Fire Region



PHOTOS and MAPS

Prepared for:
USDA Forest Service
State and Private Forestry
201 14th Street SW
Washington, DC 20024

Prepared by:
FOSTER WHEELER ENVIRONMENTAL CORPORATION
143 Union Boulevard, Suite 1010
Lakewood, CO 80228